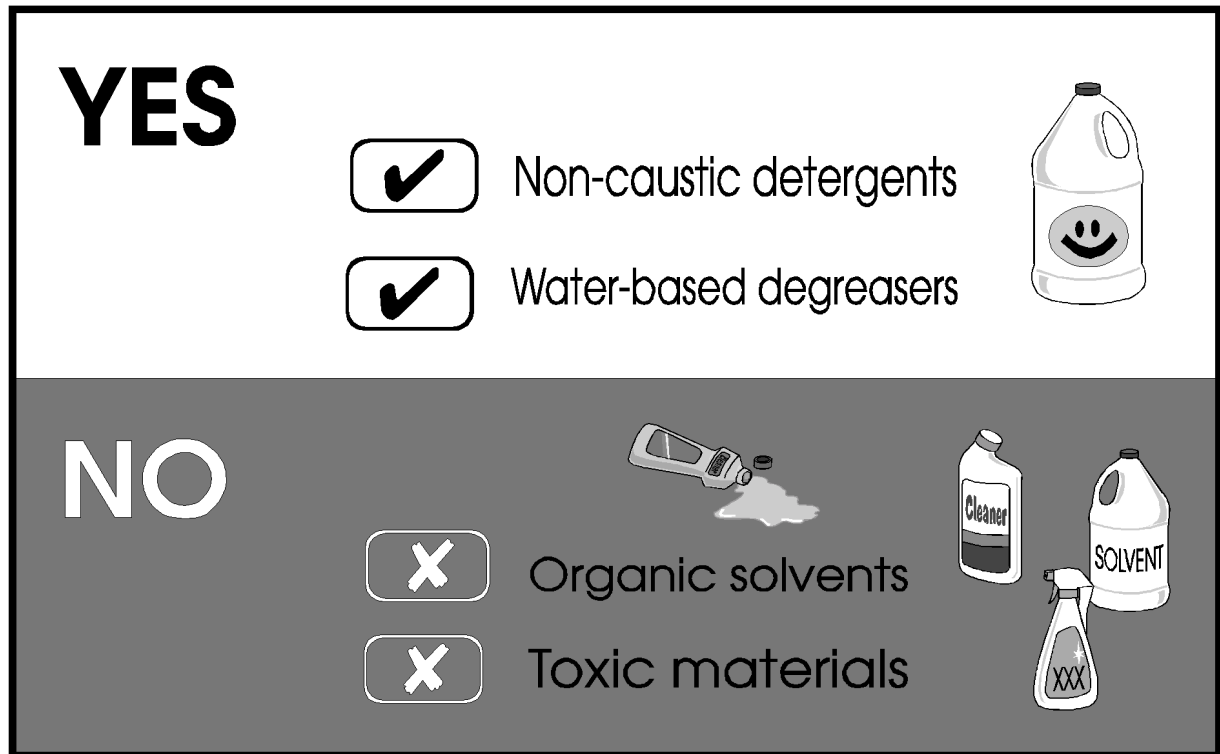


## BMP 047 - Substitute Non-Toxic or Less-Toxic Cleaning Solvents



**Description of Potential Pollutant and Source:** Organic solvents, typically used for cleaning equipment and parts, are considered a major pollutant in storm water. Exposure of these materials to storm water can be minimized by using less-toxic substitutes.

**Description of BMP:** One method to reduce the impact of storm water pollutants is to substitute non-toxic or less-toxic materials. This includes using non-caustic detergents for parts cleaning, detergent or water-based degreasers in place of organic degreasers, replacing chlorinated solvents with non-chlorinated solvents, and using phosphate-free detergents. However, even non-toxic materials are considered storm water pollutants and must be managed properly.

**Application Guidance:** Less-toxic materials will be substituted whenever possible.

**Training:** The procurement office will be trained regarding the constituents of cleaning materials and alternative materials. Personnel will be trained to know the differences between new and previously used materials.

**Effectiveness and Cost:** Effectiveness and cost will vary depending on site conditions.

**Limitations:** There may be no adequate alternative cleaning solvent available at a reasonable cost.